

WARNING ALGORITHMS FOR VEHICLE DRIVELINE FAILURES

ABSTRACT OF THE DISCLOSURE

The basic warning devices utilized in a vehicle driveline are improved. In particular, should a problem be detected with a clutch or transmission, it is known to actuate a primary warning device. However, the primary warning device itself may be subject to failure. If the primary warning device fails, then an operator of the vehicle may not be provided with an indication of an impending problem in a timely manner. The present invention monitors the operation of each primary warning device, and actuates a secondary warning device should the primary warning device fail. In another portion of this invention, a sensor senses the operation of an automatic clutch for clutch slippage. If clutch slippage occurs, then a warning is sent to the vehicle operator. If the vehicle operator does not take corrective measures, the clutch slippage can continue to occur over time. If the control determines that clutch slippage continues to occur, then the frequency of the warning is increased to provide a more insistent indication to the operator that some corrective measure should be taken.